ELSEVIER

Toxicology 108 (1996) 227–228

TOXICOLOGY

Volume contents

Volume 108 (1996)

Accumulation of orally given cadmium in Long-Evans Cinnamon (LEC) rats with an inherently abnormal copper metabolism
(Biliary excretion of Cu and Cd appears not to occur via the same mechanism)
N. Sugawara, Y.-R. Lai, C. Sugawara (Sapporo, Japan) 1–7

Potentiation of hypoxic injury in cultured rabbit hepatocytes by the quinoxalinone anxiolytic, panadiplon
(Panadiplon appears to cause hepatic mitochondiral dysfunction with ensuing depletion of glycogen)
J.A. Bacon, C.T. Cramer, D.K. Petrella, E.L. Sun, R.G. Ulrich (Kalamazoo, MI) 9–16

Spinal motor neuron neuroaxonal spheroids in chronic aluminum neurotoxicity contain phosphatase-resistant high molecular weight neurofilament (NFH)
(Results from repeated intracisternal aluminum injections in rabbits)
S. Gaytan-Garcia, H. Kim, M.J. Strong (Ontario, Canada) 17–24

Toxic effects of hexane derivatives on cultured rat Schwann cells
(Hexane derivatives inhibit Schwann cell mitosis in vitro)
M. Kamijima, G. Sobue, G. Ichihara, E. Shibata, Y. Ono, H. Kondo, M.B.G. Villanueva, T. Itoh, T. Mitsuma, Y. Takeuchi (Nagoya, Aichi, Japan) 25–31

Toxic effects of ethylene oxide residues on bovine embryos in vitro
(Ethylene oxide sterilization may adversely affect in vitro fertilization work)
G. Reed Holyoak, S. Wang, Y. Liu, T.D. Bunch (Logan, Utah) 33–38

Dose-related effect of aflatoxin B1 on liver drug metabolizing enzymes in rabbit
(The mycotoxin affects oxidative and conjugative enzymes also in rabbits)
P. Guerre, C. Eeckhoutte, G. Larrieu, V. Burgat, P. Galtier (Toulouse, France) 39–48

Dissociation of DDVP-induced DNA strand breaks from oxidative damage in isolated rat hepatocytes
(Dichlorvos-induced lipid peroxidation plays an important role in cytotoxicity, but not in genotoxicity)
T. Yamano (Osaka, Japan) 49–56

N-acetylcysteine protects Chinese hamster ovary (CHO) cells from lead-induced oxidative stress
Protection is afforded through enhancement of antioxidant defense mechanisms)
N. Ercal, P. Treeratphan, P. Lutz, T.C. Hammond, R.H. Matthews (Rolla, MI) 57–64

Cyclosporin A-induced functional and morphological changes in pilocarpine treated rat submandibular glands
(Description of a reduction of pilocarpine-induced saliva flow and changes in cytomorphology)
A.R. Dehpour, P. Nouhnejad, K. Mousavizadeh, P. Ghafourifar, M. Djamali, B. Borhanimoghadam (Tehran, Iran) 65–71

Inorganic tin — a new selective inducer of the murine coumarin 7-hydroxylase (CYP2A5)
(Inorganic tin joins cerium, cobalt and indium as a selective inducing agent)
B. Emde, M. Tegtmeier, B. Hahnemann, W. Legrum (Marburg, Salzgitter, Germany) 73–78

Toxicity of inhaled chloroprene (2-chloro-1,3-butadiene) in F344 rats and B6C3F$_1$ mice
(A 13 week study showed a toxicologic profile different from isoprene or 1,3-butadiene)
R.L. Melnick, M.R. Elwell, J.H. Roycroft, B.J. Chou, H.A. Ragan, R.A. Miller (Research Triangle Park, NC; Richland, WA) 79–91

Comparison of cephaloridine renal accumulation and urinary excretion between normoglycemic and diabetic animals
(In diabetic rats, less cephaloridine accumulates in the renal cortex)
M.A. Valentovic, J.G. Ball, B.A. Rogers (Huntington, WV) 93–99

0300-483X/96/$15.00 © 1996 Elsevier Science Ireland Ltd. All rights reserved

Erythrocyte enzymes catalyze 1-nitropyrene and 3-nitrofluoranthene nitroreduction
(Nitroreduction in hemolysate occurs via a one electron transfer and is sensitive to oxygen)
M.A. Belisario, R. Pecce, A. Garofalo, N. Sannolo, A. Malorni (Napoli, Italy) 101–108
Nephrotoxic potential of 2-amino-5-chlorophenol and 4-amino-3-chlorophenol in Fischer 344 rats: comparisons with 2- and 4-chloroaniline and 2- and 4-aminophenol
(Extrarenally produced metabolites do not appear to contribute to the nephrotoxicity of chloroaniline)
G.O. Rankin, K.W. Beers, D.W. Nicoll, D.K. Anestis, S.K. Hong, J.L. Hubbard, J.G. Ball, M.A. Valentovic, P.I. Brown (Huntington, WV) 109–123

Short communication
In vivo and in vitro toxicity of newly synthesized monofunctional sulfur mustard derivatives
(Two such compounds show cutaneous effects similar to other sulfur mustards)
U. Wormser, B.S. Green, R. Arad-Yellin, B. Brodsky, I. Shatz, A. Nyska (Jerusalem, Rehovot, Israel) 125–128

Immunotoxicology
Interactions of metallothionein with murine lymphocytes: plasma membrane binding and proliferation
(Methalothionein binds to T and B cell plasma membrane, but induces proliferation of B cells only)
L.A. Borghesi, J. Youn, E.A. Olson, M.A. Lynes (Storrs, CT) 129–140
Further evaluation of the local lymph node assay in the final phase of an international collaborative trial
(Five independent laboratories obtained similar results with 7 test materials using the murine local lymph node assay)
S.E. Loveless, G.S. Ladics, G.F. Gerberick, C.A. Ryan, D.A. Basketter, E.W. Scholes, R.V. House, J. Hilton, R.J. Dearman, I. Kimber (Newark, DE; Cincinnati, OH; Bedfordshire, UK; Chicago, IL; Cheshire, UK) 141–152

Book review 153–154
Editorial Acknowledgement 155–159
Announcements 161–163

Pharmacological prevention of acute lead poisoning in *Paramecium*
(Lead modifies calcium ion permeability and toxicity can be counteracted with a chelating agent)
J. Bernal, S. Ruvalcaba (Aguascalientes, México) 165–173
Comparison of protection by fructose against paracetamol injury with protection by glucose and fructose-1,6-diphosphate
(Fructose but not glucose maintains high ATP levels and protects cells against injury pointing to active glycolyses being necessary)
F.L. Martin, A.E.M. McLean (London, UK) 175–184
Mechanism of prolongation of pentobarbital-induced sleeping time by empenthrin in mice
(Sleeping time was only affected in mice, but not in rats)
R. Tsuji, N. Isobe, H. Kawasaki (Osaka, Japan) 185–190
The pharmacokinetics and blood-brain barrier permeation of the chelators 1,2 dimethyl-, 1,2 diethyl-, and 1-[ethan-1′ol]-2-methyl-3-hydroxypyridin-4-one in the rat
(All three chelating agents readily cross the blood-brain barrier)
A.M. Fredenburg, R.K. Sethi, D.D. Allen, R.A. Yokel (Lexington, KY) 191–199
Effect of pesticide mixtures on in vitro nervous cells: Comparison with single pesticides
(In vito experimentation cannot predict the toxicity of pesticide mixtures)
M. Marinovich, F. Ghilardi, C.L. Galli (Milan, Italy) 201–206

Immunotoxicology
Species specificity of 2-aryl carbapenem-induced immune-mediated hemolytic anemia in primates
(The risk of immune-mediated hemolytic anemia due to β-lactam antibiotics is overestimated in Rhesus monkeys)
G.R. Lankas, J.B. Coleman, H.J. Klein, Y. Bailly (West Point, PA) 207–215

Announcements 217–218
Contents of journals relating to Toxicology 219–220
Author index 221
Subject index 223–226
Volume contents 227–228